



Quick Installation Guide

Wireless N 3G / 3.5G Mobile Router

Model # AR660W3G



Ver. 1A

Introduction

Congratulations on your purchase of AR660W3G Wireless N 3G/3.5G Mobile Router. This product is specifically designed for business travelers or SOHO needs. It provides an extended WAN solution, 3G Mobile USB modem card for Internet surfing besides regular Cable or DSL modem and is easy to share the Internet connectivity wherever 3G mobile Internet service is available. It is recommended to use with AirLink101® Wireless N products to provide the best performance. The high speed of up to 300Mbps* combined with extended wireless coverage delivers fast and reliable connections for all of your networking applications.

Before you begin the installation, please check the items of your package:

Package Contents:

- Wireless N 3G/3.5G Mobile Router
- Power Adapter
- Ethernet Cable (Cat.5)
- Manual CD
- Quick Installation Guide

Section 1

This Quick Installation Guide only provides basic instructions. For detailed information on using this product, please refer to the User's Manual on the supplied CD.

Connecting the Router

Note: Prior to connecting the router, be sure to power off your computer, DSL/Cable modem(if applicable), and the router.

Step 1

Option 1 Plug the 3G/3.5G USB modem card into the USB slot on the front panel of the router.



Option 2 Connect one end of a network cable to the **WAN** port of the router and connect the other end of the cable to the DSL/Cable modem. Power on the modem.



Step 2 With another network cable, connect one end of the cable to your computer's Ethernet port and connect the other end to one of the **LAN** ports of the router. (After setup finishes, you can remove the network cable between the computer and router if you want to use wireless connection.)



Step 3 Plug the power adapter to the router and connect it to an outlet or power strip.

Step 4 Power on your computer.

Step 5 Make sure either **WAN** or **USB**, **WLAN**, and the **LAN** port that the computer is connected to are lit. If not, try the above steps again.

LED Indicators:

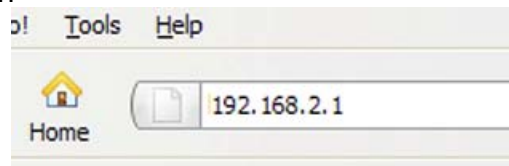
LED	Light Status	Description
POWER	On	Router is powered on.
WLAN	On	WPS setup is in progress.
	Off	Wireless network is switched off.
	Flashing	Wireless network is ready and WPS setup is not in progress.
WAN LNK/ACT	On	WAN port is connected.
	Off	WAN port is not connected.

	Flashing	WAN port is transferring or receiving data.
USB LNK/ACT	On	USB modem is connected
	Off	USB modem is not connected
	Flashing	USB modem is transferring or receiving data.
LAN 1-4 LNK/ACT	On	LAN port is connected.
	Off	LAN port is not connected.
	Flashing	LAN port is transferring or receiving data.

Section 2

Configuring the Router

Step 1 Open the web browser (Internet Explorer or Mozilla Firefox) from the computer that is wired to the Router, type **192.168.2.1** in the Address bar and press **Enter**.



Step 2 Enter **admin** for both the username and password fields and click **OK**.

Connect to 192.168.2.1

The server 192.168.2.1 at Default: admin/admin requires a username and password.

Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).


User name:

Password:

☐ Remember my password

OK Cancel

Step 3 Click **Setup Wizard** on the left menu.



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- Setup Wizard**
- Network
- Wireless
- Application & Gaming
- Access Restriction
- Security
- Administration
- Status

Log Out

Wireless N 3G/3.5G Mobile Router


Internet Connection

View the current internet connection status and related information.

WAN Status	
WAN Protocol :	Dynamic IP connect
IP Address :	192.168.20.106
Subnet Mask :	255.255.255.0
Default Gateway :	192.168.20.1
MAC Address :	00:00:50:00:24:11
Primary DNS :	206.13.28.12
Secondary DNS :	206.13.28.12

3G/3.5G Status	
WWAN Status:	Disconnected
IP Address:	N/A
Subnet Mask:	N/A
Gateway:	N/A

Step 4 Configure the Time Zone Settings of the Router. Click **Next**.



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- 1. Time Zone
- 2. WAN Type
- 3. IP Address Info
- 4. Wireless Settings
- 5. Security Settings

Log Out

Wireless N 3G/3.5G Mobile Router

Time


Set the time zone of the Wireless Router. This information is used for log entries and firewall settings.

Time Zone :	(GMT-08:00)Pacific Time (US & Canada); Tijuana
Time Server Address :	192.43.244.18
Daylight Savings :	<input checked="" type="checkbox"/> Enable
Time From :	April 1 To October 1

CANCEL

NEXT

Step 5 Select WAN type by which Internet service you are using. This guide will provide instructions on these WAN types: 3G/3.5G, Cable, and DSL.



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- 1. Time Zone
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Log Out

Wireless N 3G/3.5G Mobile Router

- 3G/3.5G**
If you connect to Internet using a 3G/3.5G handset or 3G/3.5G USB modem, then you should choose this option and enter the required information.
- Cable Modem**
A connection through a cable modem requires minimal configuration. When you set up an account with your Cable provider, the Cable provider and your Wireless Router will automatically establish a connection, so you probably do not need to enter anything more.
- Fixed-IP xDSL**
Some xDSL Internet Service Providers may assign a Fixed IP Address for your Wireless Router. If you have been provided with this information, choose this option and enter the assigned IP Address, Subnet Mask, Gateway IP Address and DNS IP Address for your Wireless Router.
- PPPoE xDSL**
If you connect to the Internet using an xDSL Modem and your ISP has provided you with a Password and a Service Name, then your ISP uses PPPoE to establish a connection. You must choose this option and enter the required information.
- PPTP xDSL**
If you connect to the Internet using an xDSL Modem and your ISP has provided you with a Password, Local IP Address, Remote IP Address and a Connection ID, then your ISP uses PPTP to establish a connection. You must choose this option and enter the required information.
- L2TP xDSL**
Layer Two Tunneling Protocol is a common connection method used in xDSL connections.
- Telstra Big Pond**
If your Internet service is provided by Telstra Big Pond in Australia, you will need to enter your information below. This information is provided by Telstra BigPond.

BACK

3G/3.5G

Click on **3G/3.5G** if you are connecting to Internet through a 3G USB modem.

When the 3G/3.5G detailed settings come up, enter the Internet connection parameters if it is required by your wireless 3G Internet Service Provider.

There are 2 types of Services: **CDMA2000** or **3G/3.5G Only (UMTS/HSPA/HSDPA)**. You may try both service types if you are not sure which one your USB modem uses. Click **Next**.

The screenshot displays the configuration interface for the AirLink 101 Wireless N 3G/3.5G Mobile Router. On the left, a sidebar lists navigation options: 1. Time Zone, 2. WAN Type, 3. IP Address Info, 4. Wireless Settings (selected), and 5. Security Settings. The main content area is titled '3G/3.5G' and includes instructions to enter service provider details. A table of settings is shown, with a red box highlighting the 'Service' dropdown menu, which is currently set to 'CDMA2000'. Other fields include 'APN' (internet), 'User Name', 'Password', 'Verify Password', and 'AT Dial Script' (#777). At the bottom right, the 'NEXT' button is highlighted with a red box.

3G/3.5G Settings :	
PIN Code :	
APN :	internet
User Name :	
Password :	
Verify Password :	
Service :	CDMA2000
AT Dial Script :	#777

Note: The setting shown above is for Verizon Wireless USB720 3G Modem.

Cable

Click on Cable Modem if you are connecting to Internet through a cable modem.

When the Dynamic IP settings come up, click **Clone MAC** and click **Next**.



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1. Time Zone

2. WAN Type

3. IP Address Info

4. Wireless Settings

5. Security Settings

Log Out

Wireless N 3G/3.5G Mobile Router

3. IP Address Info

Dynamic IP

Cable Modem

Host Name : 3gRouter

MAC Address : 00:00:50:00:24:11

Clone MAC

BACK

NEXT

DSL

For DSL users, your Internet type is either **Dynamic IP** or **PPPoE**. If you are not sure which one you have, it is suggested to select **PPPoE xDSL** for your WAN type, and if you cannot connect to the Internet after the Setup Wizard finished, go through the Setup Wizard again and **select Cable Modem**. Otherwise, you can call your ISP to confirm which Internet type you have.

Option 1: PPPoE Settings

Click on **PPPoE xDSL** for your WAN type. Enter your user name and password provided by your ISP. Click **Next**.



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1. Time Zone

2. WAN Type

3. IP Address Info

4. Wireless Settings

5. Security Settings

Log Out

Wireless N 3G/3.5G Mobile Router

3. IP Address Info

PPPoE

Enter the User Name and Password required by your ISP in the appropriate fields. If your ISP has provided you with a "Service Name" enter it in the Service Name field, otherwise, leave it blank.

User Name :

Password :

Service Name :

MTU : 1392 (512<=MTU<=1492)

Connection Type : Continuous

Idle Time Out : 10 (1-1000 Minute)

Connect

Disconnect

BACK

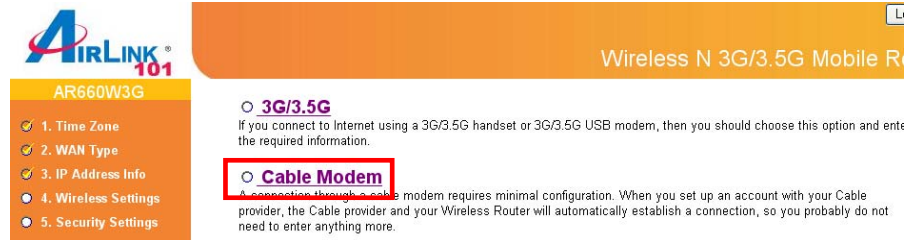
NEXT

Note: Depending on the ISP, you may need to include the domain name with your username.

Example: username@sbcglobal.net

Option 2: Dynamic IP Settings

Click on **Cable Modem** for your WAN type.




The screenshot shows the AIRLINK 101 router configuration interface. On the left is a sidebar with a menu: 1. Time Zone, 2. WAN Type, 3. IP Address Info, 4. Wireless Settings, and 5. Security Settings. The main content area has an orange header with the AIRLINK 101 logo and the text 'Wireless N 3G/3.5G Mobile Router'. Below the header, there are two radio button options: '3G/3.5G' and 'Cable Modem'. The 'Cable Modem' option is selected and highlighted with a red box. Below the radio buttons, there is explanatory text for each option. The 'Cable Modem' text states that it requires minimal configuration and that the connection will be established automatically by the cable provider and the router.

When the Dynamic IP settings come up, leave click **Clone MAC** and click **Next**.



The screenshot shows the '3. IP Address Info' configuration screen for the AIRLINK 101 router. The sidebar on the left is the same as in the previous screenshot. The main content area has an orange header with the AIRLINK 101 logo and the text 'Wireless N 3G/3.5G Mobile Router'. Below the header, the title '3. IP Address Info' is followed by 'Dynamic IP'. Underneath, it says 'Cable Modem'. There are two input fields: 'Host Name' with the value '3gRouter' and 'MAC Address' with the value '00:00:50:00:24:11'. To the right of the MAC Address field is a button labeled 'Clone MAC'. At the bottom right, there are two buttons: 'BACK' and 'NEXT'. The 'NEXT' button is highlighted with a red box.

Step 6 Keep the default SSID (wireless network name) or change it to a desired name, so you can always recognize your wireless network with it. Click **Next**.



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- 1. Time Zone
- 2. WAN Type
- 3. IP Address Info
- 4. Wireless Settings
- 5. Security Settings

Log Out

Wireless N 3G/3.5G Mobile Router

Basic Settings

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Wireless Module : Enabled


Band :	2.4 GHz (B+G+N)
SSID :	airlink101-3g
Channel Number :	6
Associated Clients :	Show Active Clients

BACK

NEXT

Step 7 Set up Wireless Security for your router.

WPA2(AES) is the most secured encryption mode for general users. WEP is the most common encryption but the least secured. It is recommended to use WPA2 (AES) for your wireless security if all wireless devices on your network can support this mode.



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- 1. Time Zone
- 2. WAN Type
- 3. IP Address Info
- 4. Wireless Settings
- 5. Security Settings

Wireless

Wireless Security

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any

Encryption :	Disable
<input type="checkbox"/> Enable 802.1x Authentication	Disable WEP WPA pre-shared key WPA RADIUS

BACK

OK

WPA2(AES)

Select **WPA pre-shared key** for Encryption.



AR660W3G

1. Time Zone

2. WAN Type

3. IP Address Info

4. Wireless Settings

5. Security Settings

Wireless Security

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any u

Encryption :	WPA pre-shared key ▾
WPA Unicast Cipher Suite :	<input type="radio"/> WPA(TKIP) <input checked="" type="radio"/> WPA2(AES) <input type="radio"/> WPA2 Mixed
Pre-shared Key Format :	Passphrase ▾
Pre-shared Key :	*****

BACKOK

WPA Unicast Cipher Suite: Select WPA2(AES)

Pre-Shared Key Format: Select Passphrase

Pre-shared Key: Enter a key between 8 to 63 characters (alphanumeric, case sensitive). This is the security key for your wireless network

Click **OK** to save the settings.

WEP

Select **WEP** for Security Mode.



AR660W3G

1. Time Zone

2. WAN Type

3. IP Address Info

4. Wireless Settings

5. Security Settings

Wireless Security

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any u

Encryption :	WEP ▾
Key Length :	64-bit ▾
Key Format :	Hex (10 Characters) ▾
Default Tx Key :	Key 1 ▾
Encryption Key 1 :	*****
Encryption Key 2 :	*****
Encryption Key 3 :	*****
Encryption Key 4 :	*****

☐ Enable 802.1x Authentication

BACKOK

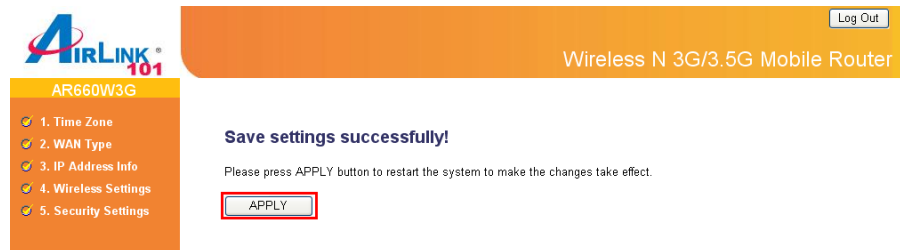
- Key Length: Select 64-bit or 128-bit
- Key Format: Select Hex or ASCII
- Default Tx Key: Select Key 1
- Encryption Key 1: If you selected 64-bit key length and ASCII key format, enter 5 alphanumeric characters. If you selected 128-bit key length and ASCII key format, enter 13 alphanumeric characters. If you selected 64-bit key length and HEX key format, enter 10 hexadecimal characters (0~9, A~F) for Key Setting. If you selected 128-bit key length and HEX key format, enter 26 hexadecimal characters. This is the security key for your wireless network.

Click **OK** to save the settings.

Please refer to the User's Manual in the provided CD for other security mode settings.

Note: It is suggested to write down the security settings (Encryption and Key) you configured for the Router on a piece of paper and keep it for you to add more wireless device to your network.

Step 8 Click **Apply** to restart the router.



After 30 seconds, you will go back to the Status page with valid IP address assigned by you ISP (or configured by yourself if you use Static IP) in either WAN or 3G/3.5G Status section.

AR660W3G

Setup Wizard
Network
Wireless
Application & Gaming
Access Restriction
Security
Administration
Status

Internet Connection

View the current internet connection status and related information.

WAN Status

WAN Protocol :	Dynamic IP disconnect
IP Address :	
Subnet Mask :	
Default Gateway :	66.174.217.64
MAC Address :	00:00:50:00:24:11
Primary DNS :	66.174.92.14
Secondary DNS :	69.78.96.14

3G/3.5G Status


WWAN Status:	Connected
IP Address:	70.212.253.202
Subnet Mask:	255.255.255.255
Gateway:	66.174.217.64

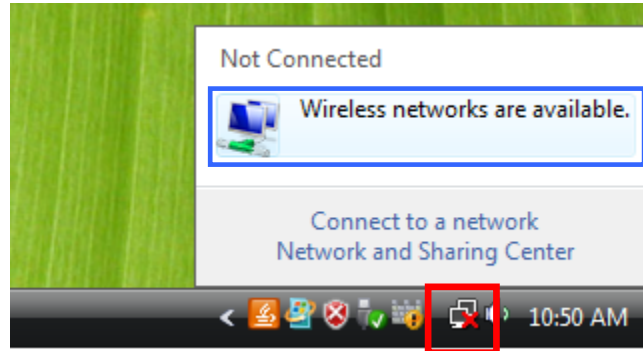
If either section has valid IP addresses being assigned, the router is connected to the Internet.

Section 3

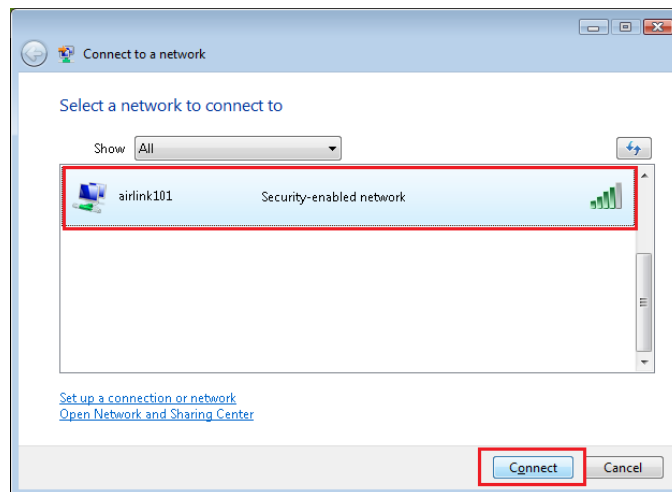
Connecting to the Router Wirelessly

You must configure your wireless computer in order to establish a wireless connection to the router. In this section, you can find the instructions of how to connect to the router wirelessly with your **Vista** computer. You can also refer to the manual of your wireless network card regarding how to connect to a router wirelessly.

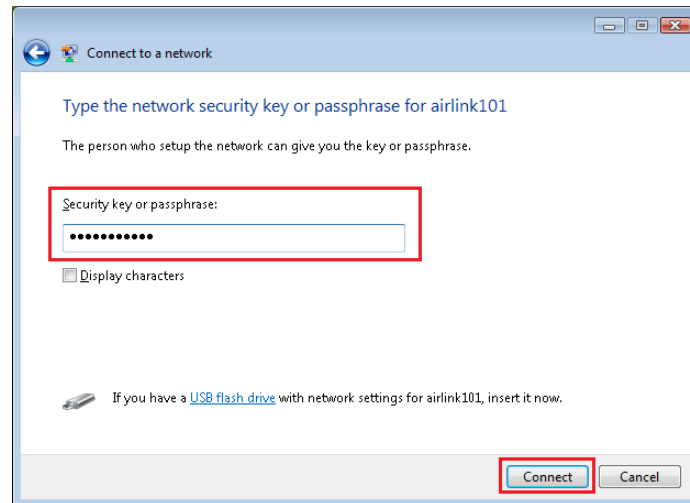
Step 1 Click on this icon  on the task bar of your desktop, then click on **Wireless networks are available.**



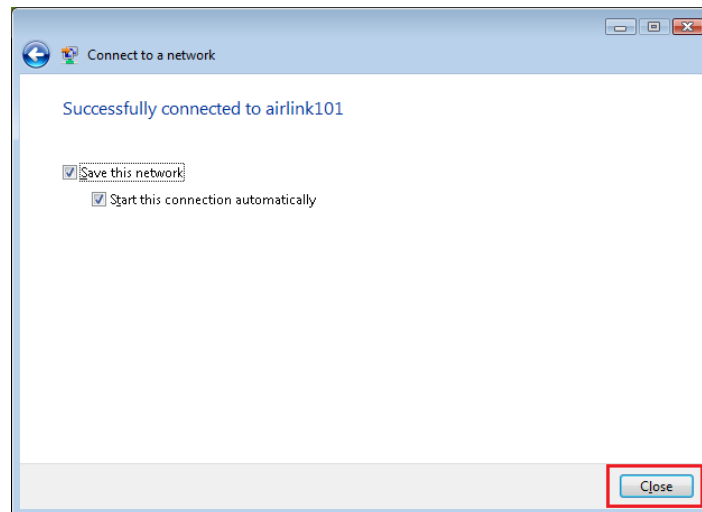
Step 2 Click on the wireless network you want to connect to and click **Connect.**



Step 3 Enter the Security key you configured for the Router (see Step 8 in Section 2). Click **Connect**.



Step 4 Click on **Close**. Now the wireless connection has been established successfully with the Router.



Section 4 (Optional)

Connecting to the Router with Easy Setup Button

The AR660W3G Airlink101 Wireless N 3G/3.5G Mobile Router has a Easy Setup Button built-in which allows you to connect your wireless computer with the router easily and safely. Your wireless adapter must support this feature (WiFi Protected Setup™) as well. If not, you will need to set up the wireless security manually and you can skip this section.

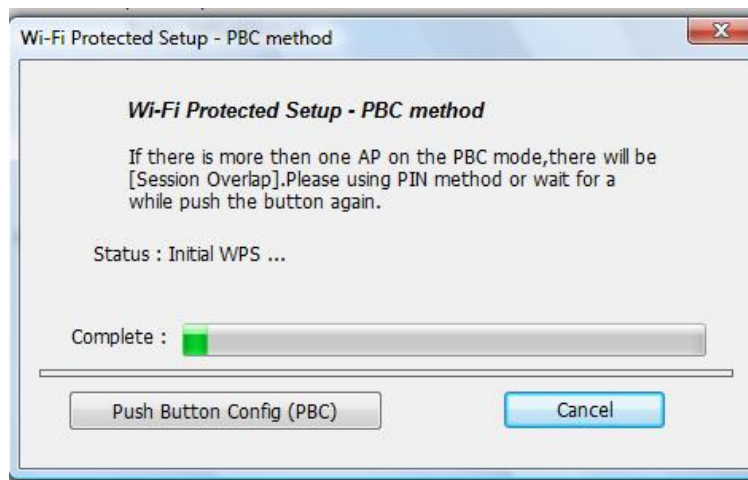
In the instructions below, we are going to use the Airlink101 WLAN Monitor utility comes with the AWLL6077, Airlink101 Wireless N adapter as an example.

Step 1 Go to the computer with Airlink101 Wireless N adapter, AWLL6077 connected.

Step 2 Push and hold the Easy Setup Button on the Adapter until you see the following window pops up on the computer monitor.



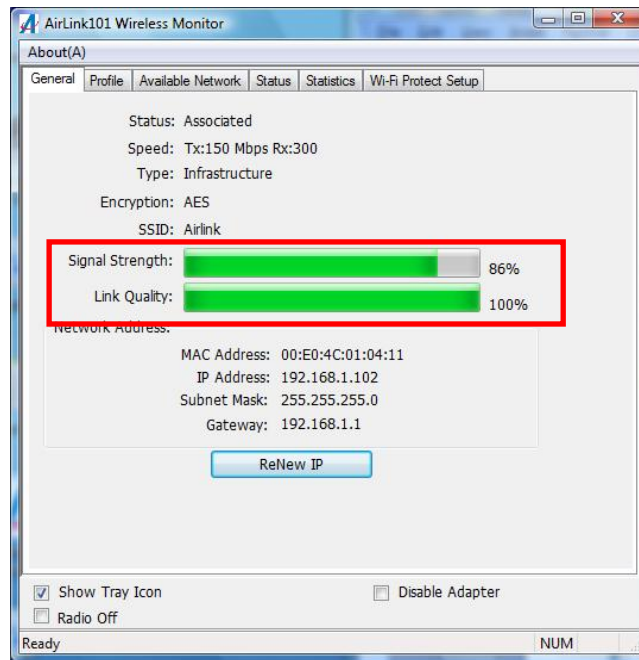
You will see this window pops up on the monitor:



Step 3 Within the following 2 minutes, push the Easy Setup Button on the Router. The WLAN LED on the Router will stay solid green instead of blinking.



Step 4 The Router will now start to synchronize the security settings with the wireless adapter. When you see a similar window as below, the connection has been established.



Section 5

Troubleshooting

If you have trouble connecting to the Internet with the **Cable/DSL modem**, try the following steps:

- Step 1** Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.
- Step 2** Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.
- Step 3** Turn on the router and wait for the lights on the router to settle down.
- Step 4** Turn on the computer.
- Step 5** Log in to the router and you will see the Internet Connection Status.

Step 6 Verify that the **Internet IP Address**, **Subnet Mask**, and **Default Gateway** have valid numbers assigned to them (instead of all 0's).

If you have trouble connecting to the Internet with the **3G/3.5G USB modem**, there are few things you can try:

1. Make sure your 3G/3.5G modem is compatible with AR660W3G Wireless N 3G/3.5G Router. Please check the compatibility list at www.airlink101.com.
2. Make sure the 3G/3.5G USB modem works when it is directly connected to your computer
3. Make sure the 3G/3.5G USB modem is properly connected to the Router. The LED indicator on the USB modem should be lit up.
4. Double check the 3G/3.5G modem settings you configured for the Router, and make sure all settings are correct.

Section 6

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Website: www.airlink101.com

* The AR660W3G may not support all 3G USB modems. Please go to airlink101.com to check the compatibility list.

*Theoretical maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. This product is based on IEEE draft 802.11n specification and is not guaranteed to be compatible with future versions of IEEE 802.11n specification. Compatibility with draft 802.11n devices from other manufactures is not guaranteed. Specifications are subject to change without notice. Photo of product may not reflect actual content. All products and trademarks are the property of their respective owners. Copyright ©2009 Airlink101®